TC9217MM-C, TC9220MM-C, TC9227MM-C

Security Systems

EN

Instruction Manual

Monitor Mounts

BOSCH

MONITOR MOUNT COMPATIBILITY CHART

For Bosch LTC Series Monitors

Bosch Monitor Model No.	Ceiling Mount	Wall Mount
Monochrome		
LTC 2009/51, /61	MM3000	TC9209MM-W
LTC 2012/51, /61	MM3000	TC9209MM-W
LTC 2017/50, /60	TC9217MM-C	TC9217MM-W
LTC 2020/90	TC9220MM-C	TC9220MM-W
Color		
LTC 2810/90, /91	TC9217MM-C	TC9217MM-W
LTC 2813/90	TC9217MM-C	TC9217MM-W
LTC 2814/90	TC9217MM-C	TC9217MM-W
LTC 2821/90, /91	TC9220MM-C	TC9220MM-W
LTC 2910/90	MM3000	TC9209MM-W
LTC 2915/91	TC9217MM-C	TC9217MM-W
LTC 2917/91	TC9217MM-C	TC9217MM-W
LTC 2919/90	TC9220MM-C	TC9220MM-W
27ST220L	TC9227MM-C	TC9227MM-W

Installation Hint for TC9217MM, TC9220MM, and TC9227MM Series Monitor Mounts, RE: Step 4.

For proper center of gravity alignment of Bosch monitors on the bottom support tray, a recommended starting point is to use the third (3rd) square hole from the front edge of the tray to mount the vertical support arm using pin E.

SERVICE

If the unit needs servicing, contact the nearest Bosch Security Systems Service Center for authorization to return and shipping instructions.

Service Centers

USA
Phone: 800-366-2283 or 717-735-6638
Fax: 800-366-1329 or 717-735-6639
CCTV Spare Parts
Phone: 800-894-5215 or 408-956-3853 or 3854
Fax: 408-957-3198
E-mail: BoschCCTVparts@ca.slr.com
Canada
Phone: 514-738-2434
Europe, Middle East & Asia Pacific Region
Phone: 32-1-440-0711
For additional information, see www.boschsecurity.com.

Installation and Assembly - BOSCH Monitor Ceiling Mount

BOSCH
Models:
TC9217MM-C
TC9220MM-C
TC9227MM-C

This product is intended for use with UL Listed products and must be installed by a qualified professional installer.

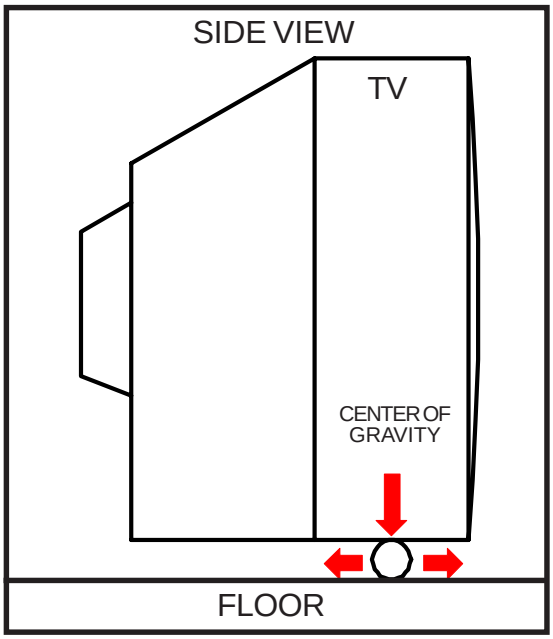
Before you start make sure all parts shown (parts list, page 8) are included with your bracket.

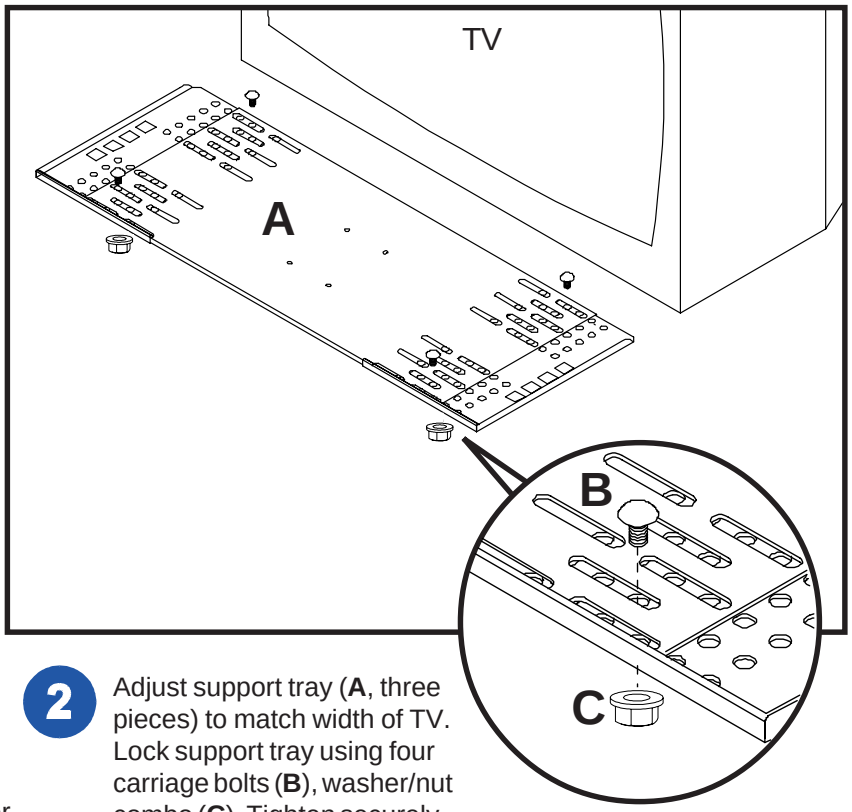
Product is UL rated up to ___ TV sizes, per attached chart

Model #:	TV size
TC9217MM-C	17"
TC9220MM-C	21"
TC9227MM-C	27"

IMPORTANT! Read entire instruction sheet before you start installation and assembly.

Each monitor mount is for use with a single TV or monitor of a specified size only.

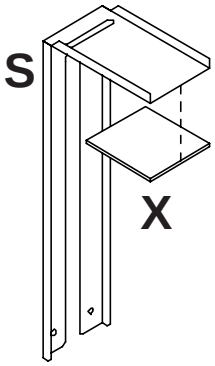


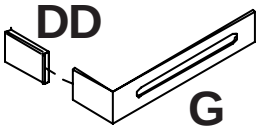


1 Place TV onto a piece of pipe as shown. (Pipe should be a few inches wider than the TV.) Roll TV back and forth to find the balance point. This is the **center of gravity**. Mark the center of gravity on the side of the TV.

2 Adjust support tray (**A**, three pieces) to match width of TV. Lock support tray using four carriage bolts (**B**), washer/nut combo (**C**). Tighten securely.

3 Attach adhesive pads (**X**) to top clamps (**S**). Insert plastic covers (**DD**) onto ends of anti-rollout hooks (**G**).





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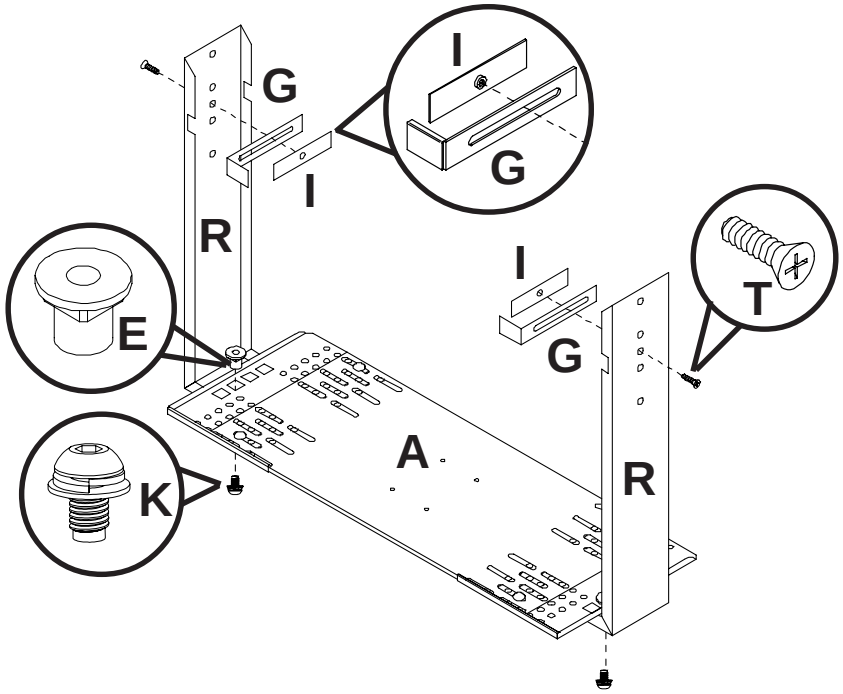
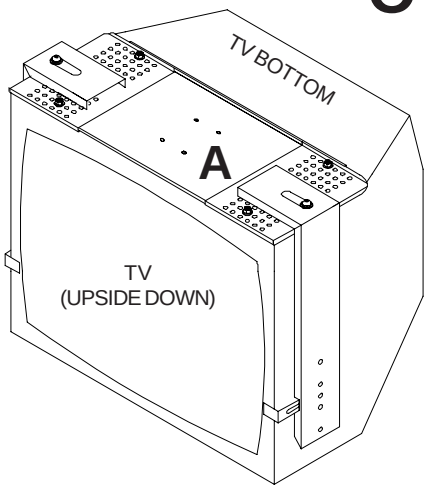
4 Attach support tray (**A**) to vertical support arms (**R**) as shown.
Note: Choose the square hole which aligns closest with the center of gravity mark on the TV (as determined in step 1).
Attach anti-rollout hooks (**G**) as shown using M6 screws (**T**) and retainer bars (**I**).
Note: Extruded side of retainer bar (**I**) goes towards anti-rollout hook (**G**).
Hand tighten only.

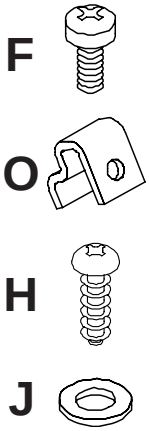


O P T I O N A L

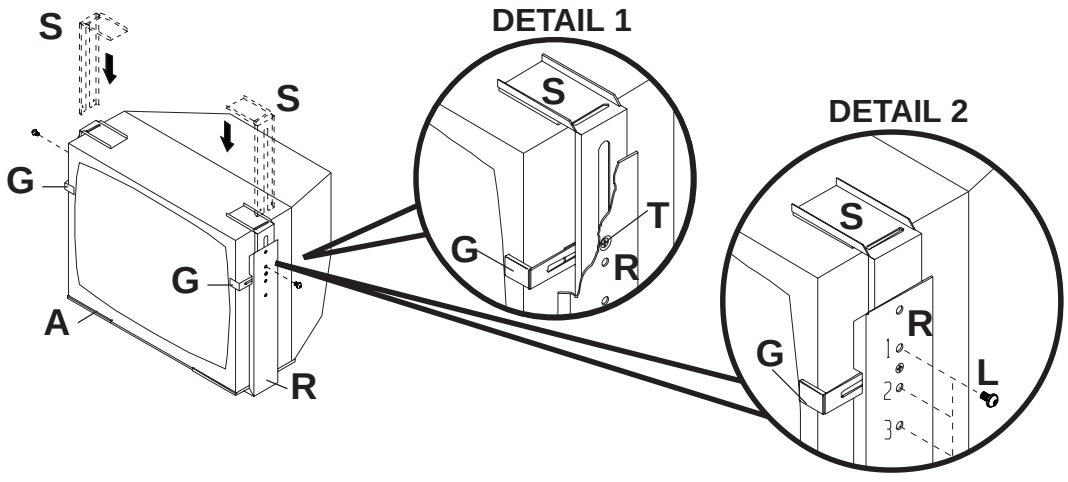


*Although top clamps (**S**) and anti-rollout hooks (**G**) [see step 5] will provide more than adequate support for the TV, some installers may wish to also attach the support tray to the TV bottom.*

Using uni-clips (**O**) and M5 screws (**F**) (see instruction card in fastener pack), or #10 x 3/4" particle board screws (**H**) and washers (**J**) (for attachment to mounting bosses if present), or a combination of both, attach support tray (**A**) to TV bottom. [To do this place TV upside down on a flat stable surface and position support tray upside down on TV bottom.] Attach at four places as close to the four corners of the TV bottom as possible.



Note: Slots in corners of top clamps (**S**) and corners of vertical support arms (**T**) allow for the installation of safety belt (model **ACC 666**, sold separately). If using this belt, install it now.



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5 Position TV onto support tray (**A**). Position anti-rollout hooks (**G**) against front edge of TV.

⚠ WARNING

- Each anti-rollout hook (G) should have at least 1/4" of surface contact with the front of the TV. If this is not the case the support tray (A) must be adjusted smaller [see step 2], or the vertical support arms (R) adjusted inward [see step 4].

Insert top clamps (**S**). **Note:** Top clamps (**S**) fit between rollout protectors (**G**) and vertical support arms (**R**) [DETAIL 1, page 4]. Press down on each top clamp (**S**) while securely tightening each M6 screw (**T**).

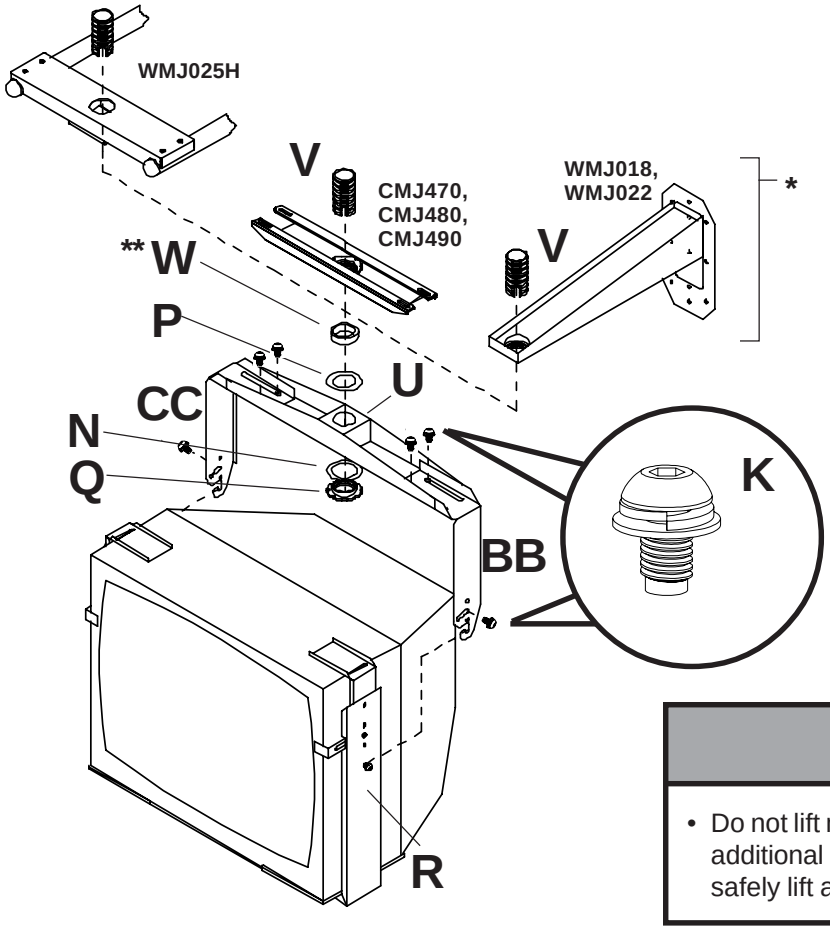
By hand, thread one serrated flange head screw (**L**) into each vertical support arm (**R**) into one of three threaded holes [1, 2, or 3; DETAIL 2, page 4]. Choose the threaded hole that will allow just enough tilt clearance [see step 7]. Leave about 1/4" of exposed thread.

6 **FIRST:** From the top fully thread flush mount tube (**V**) into threaded fitting in wall arm or ceiling plate. Install the wall arm or ceiling plate according to instructions included with it.

NEXT: Attach right and left tilt brackets (**BB** & **CC**) to horizontal support (**U**) using four screw/washer combo (**K**). Before tightening screws make sure tilt brackets are adjusted horizontally to align precisely with screws in the side of vertical support arms (**R**). Attach horizontal support (**U**) to wallarm or ceiling plate using fiber washers (**N** & **P**), spacer (**W**, only included with smaller models) and retaining collar (**Q**).
IMPORTANT: Retaining collar (**Q**) requires a safety screw [refer to DETAIL 3, page 6].

FINALLY: Be sure that hooks in right and left tilt brackets (**BB & CC**) are open end forward. Hang the TV / bracket assembly.

Insert one screw/washer combo (**K**) through slot in each tilt bracket (**BB & CC**). Hand tighten.

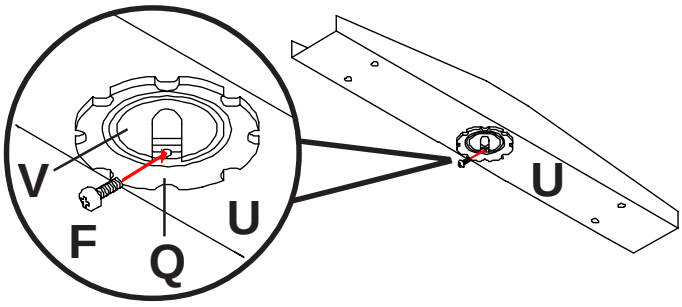


* Wall arms & ceiling plates include their own instructions.
Fixed length and adjustable extension columns are also available.

** Included with models **TC9217MM and TC9220MM only.**

⚠ WARNING

- Do not lift more weight than you can handle! Use additional manpower or mechanical lifting equipment to safely lift and hang the TV / Bracket assembly!

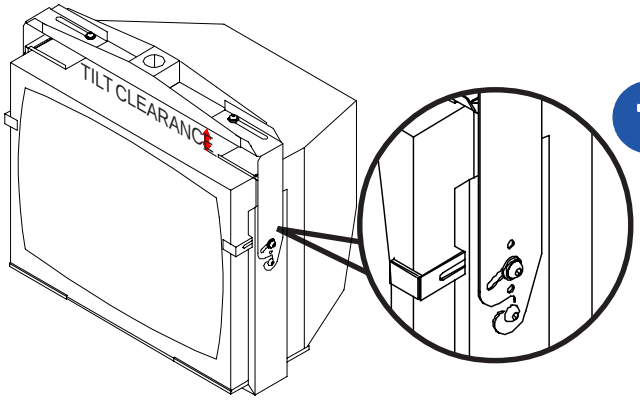


DETAIL 3
(BOTTOM VIEW)

When attaching the horizontal support (**U**) to wall arm or ceiling plate, carefully thread retaining collar (**Q**) onto end of flush mount (**V**) tube (or extension column). Tighten at least four complete turns ending with one of the small threaded holes aligned with slot in the end of flush mount tube (**V**) (or extension column). Insert and tighten one M5 screw (**F**).

⚠ WARNING

- Set screw (F) is self tapping and may be hard to get started but is essential to this installation. Failure to install this screw can cause the mount to fall.



7 Adjust TV to desired tilt then tighten screws. Maximum tilt is 30°. If tilt clearance is a problem revisit step 7, DETAIL 2.

⚠ WARNING

- Tighten all screws securely.

APPLICATION: ATTACHMENT TO CONCRETE MOUNTING SURFACE

MONITOR MOUNT SPECIFICATIONS

Monitor Mount		TV/Monitor		Product BOSCH rated when attached to...				
Model Number	Support Tray Depth	Screen Size	Screen Aspect Ratio	Wall Arm **WMJ018**	Wall Arm **WMJ022**	Double Wall Arm **WMJ025H**	Suspended Ceiling Plate **CMJ450**	Ceiling Plate **CMJ470**
TC9217MM-C	10" (254 mm)	13" - 17" (330 mm) (432 mm)	standard	150 lbs. (65 kg.)	150 lbs. (65 kg.)	300 lbs. (137 kg.)	250 lbs. (113 kg.)	300 lbs. (137 kg.)
TC9220MM-C	14" (356 mm)	19" - 21" (482 mm) (533 mm)	standard	150 lbs. (65 kg.)	150 lbs. (65 kg.)	300 lbs. (137 kg.)	250 lbs. (113 kg.)	300 lbs. (137 kg.)
TC9227MM-C	14" (356 mm)	25" - 28" (635 mm) (711 mm)	standard	*	150 lbs. (65 kg.)	300 lbs. (137 kg.)	250 lbs. (113 kg.)	300 lbs. (137 kg.)

APPLICATION: ATTACHMENT TO WOOD MOUNTING SURFACE

MONITOR MOUNT SPECIFICATIONS

Monitor Mount		TV/Monitor		Product BOSCH rated when attached to...				
Model Number	Support Tray Depth	Screen Size	Screen Aspect Ratio	Wall Arm **WMJ018**	Wall Arm **WMJ022**	Double Wall Arm **WMJ025H**	Suspended Ceiling Plate **CMJ450**	Ceiling Plate **CMJ470, CMJ480, CMJ490**
TC9217MM-C	10" (254 mm)	13" - 17" (330 mm) (432 mm)	standard	125lbs. (57 kg.)	125lbs. (57 kg.)	300 lbs. (137 kg.)	250 lbs. (113 kg.)	300 lbs. (137 kg.)
TC9220MM-C	14" (356 mm)	19" - 21" (482 mm) (533 mm)	standard	125 lbs. (57 kg.)	125lbs. (57 kg.)	300 lbs. (137 kg.)	250 lbs. (113 kg.)	300 lbs. (137 kg.)
TC9227MM-C	14" (356 mm)	25" - 28" (635 mm) (711 mm)	standard	*	125 lbs. (57 kg.)	300 lbs. (137 kg.)	250 lbs. (113 kg.)	300 lbs. (137 kg.)

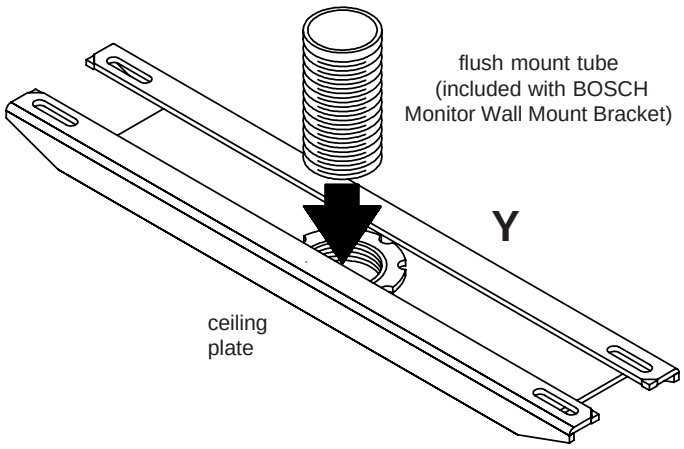
*not compatible

⚠ WARNING

- Weight of TV or monitor not to exceed Max. Load Capacity (BOSCH rating)!

1 From the top thread the Flush Mount Tube (included with your BOSCH Monitor Wall Mount Bracket) through the threaded fitting in the ceiling plate.

IMPORTANT: If you will install an extension column DO NOT INSTALL THE FLUSH MOUNT TUBE. Begin with step 2.



This Ceiling Plate is intended for use only to support BOSCH Monitor Wall Mount TV Brackets. Combine only as specified (see specifications on page 2). Fasteners provided are for attachment to wood structural members (joists or beam). Order additional fastener kit **ACC210** if attaching to a solid concrete ceiling.

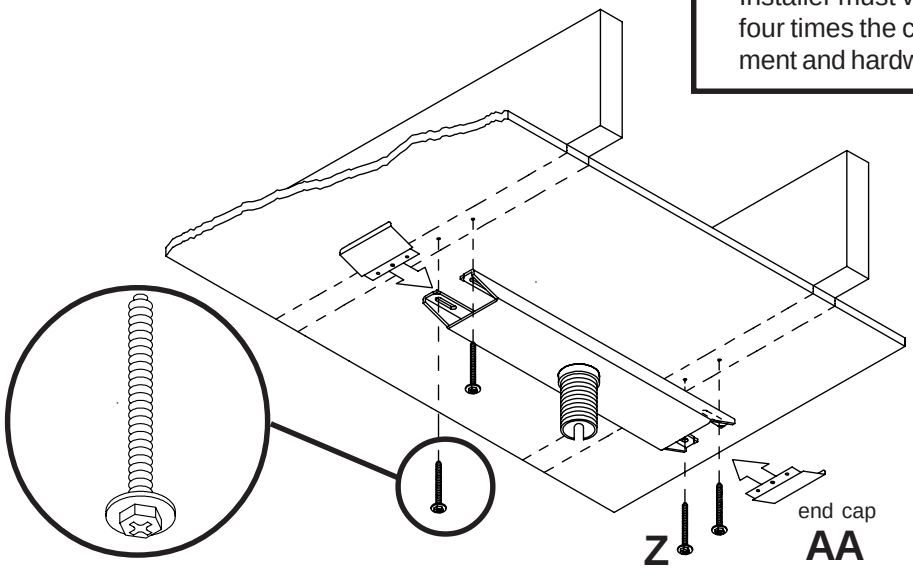
2 **For Wood Joist Finished Ceiling, Exposed Wood Joists, or Wood Beam Ceiling.** Drill four 5/32" (4 mm) dia. holes to a minimum depth of 2.5" (64 mm). Attach with four #14 x 2.5" (6 mm x 65 mm) wood screws as shown using 3/8"(10 mm) socket wrench. Snap end caps into place.

⚠ WARNING

- Tighten wood screws so that wall plate is firmly attached, but do not overtighten. Overtightening can damage the screws, greatly reducing their holding power.
- Never tighten in excess of 80 in • lb (9 N.M.).
- Make sure that mounting screws are anchored into the center of the studs. The use of an "edge to edge" stud finder is highly recommended.

⚠ WARNING

- Installer must verify that the wall will safely support four times the combined weight of all attached equipment and hardware.



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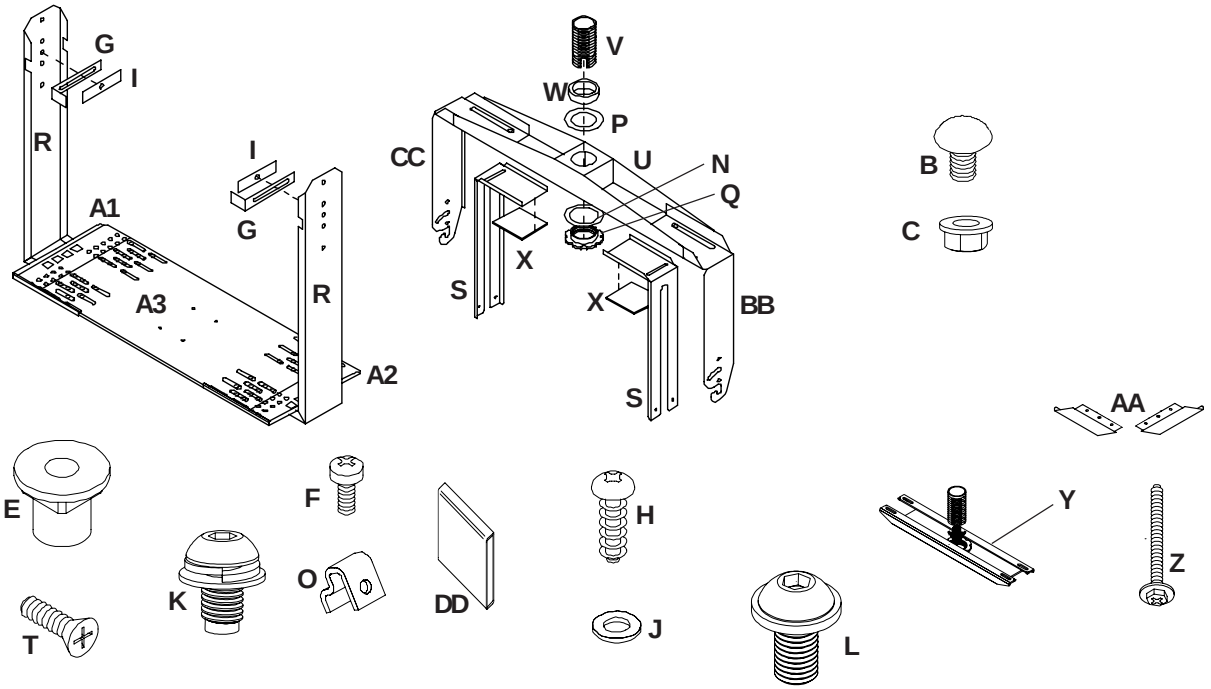
Parts List

	Description	Qty.	TC9217MM-C Part #	TC9220MM-C Part #	TC9227MM-C Part #
A1	left end support tray	1	128-1023	128-1026	128-1026
A2	right end support tray	1	128-1024	128-1027	128-1027
A3	center support tray	1	128-1128	128-1134	128-1135
B	5/16 - 18 x 1/2" carriage bolt	4	520-9207	520-9207	520-9207
C	5/16 washer/ nut combo	4	530-1016	530-1016	530-1016
E	M10-1.5 x .7 flange nut	2	520-9261	520-9261	520-9261
F	M5 x .8 x 10 mm screw	6	520-9250	520-9250	520-9250
G	Anti-rollout hook	2	128-1116	128-1116	128-1116
H	#10 x 3/4" particle board screw	4	500-9006	500-9006	500-9006
I	retainer bar	2	128-1117	128-1117	128-1117
J	#10 flat washer	4	540-9400	540-9400	540-9400
K	M10-1.5 x 16 mm socket head screw/washer combo	8	520-1041	520-1041	520-1041
L	M10 serrated flange head screw	2	520-1105	520-1105	520-1105
N	fiber washer - large inside dia.	1	540-9432	540-9432	540-9432
O	uni-clip	4	2245-081	2245-081	2245-081
P	fiber washer- small inside dia.	1	540-9431	540-9431	540-9431
Q	retaining collar	1	1800-375	1800-375	1800-375
R	vertical support arm	2	128-1107	128-1109	128-1111
S	top clamp	2	128-1138	128-1138	128-1138
T	M6 x 18 mm flat phillips screw	2	520-1166	520-1166	520-1166
U	horizontal support	1	128-1016	128-1017	128-1018
V	flush mount tube	1	1446-014	1446-014	1446-014
W	spacer (only 2630-2640D models)	1	128-0067	128-0067	-
X	adhesive pads	2	570-0024	570-0024	570-0024
Y	ceiling plate (CMJ470)	1	128-1039	128-1039	128-1039
Z	#14 x 2.5" (6 mm x 65 mm) wood screw	4	5S1-015-C03	5S1-015-C03	5S1-015-C03
AA	end cap	2	2PT-22CA01D	2PT-22CA01D	2PT-22CA01D
BB	tilt bracket right	1	128-1342	128-1337	128-1337
CC	tilt bracket left	1	128-1341	128-1336	128-1336
DD	plastic cover for anti-rollout hook	2	590-1055	590-1055	590-1055



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